

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

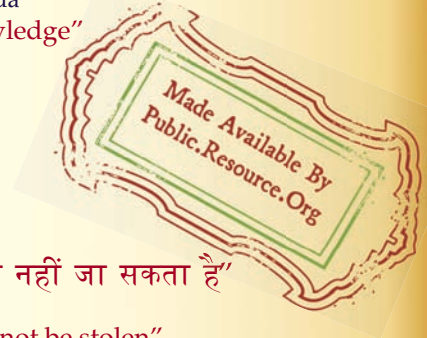
IS 8116 (1976): Moped Spokes and Nipples for Spokes [TED 6: Automotive Body, Chassis, Accessories and Garage Equipments]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

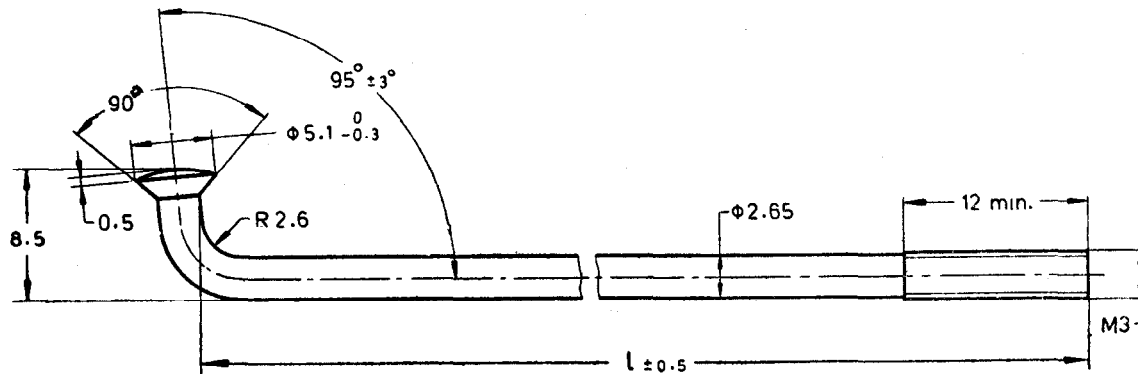
SPECIFICATION FOR MOPED SPOKES AND NIPPLES FOR SPOKES

1. Scope — Covers the requirements for moped spokes and nipples intended for use with them.

2. Dimensions

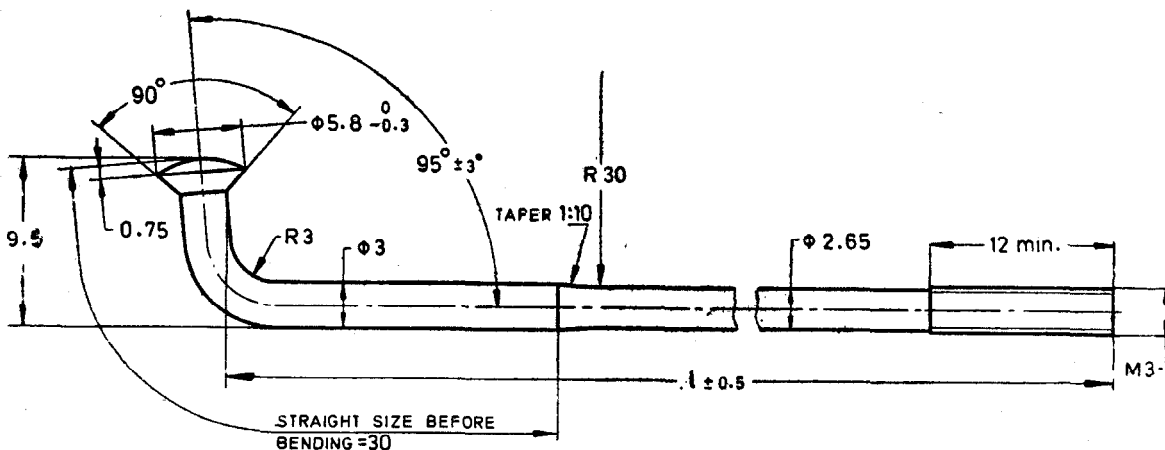
2.1 Spokes

2.1.1 Plain spokes



All dimensions in millimetres.

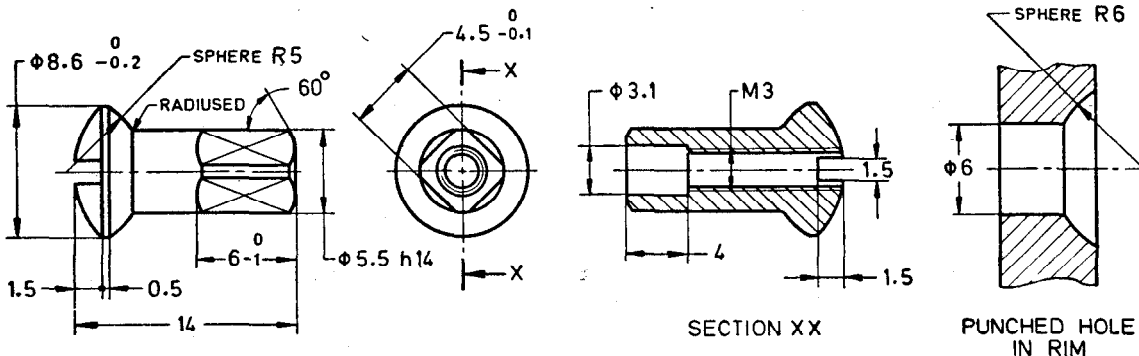
2.1.2 Offset spokes



All dimensions in millimetres.

2.1.3 Length of spokes, 'l' — The spokes shall be supplied in lengths as specified by the purchaser or in accordance with the current trade practices to suit the particular type of wheel or wheels for which the spokes are designed.

2.2 Nipples



All dimensions in millimetres.

Adopted 29 June 1976

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3. Material

3.1 Spokes — The spokes shall be manufactured from steel having an ultimate tensile strength in the range of 1 000 to 1 400 MPa.

3.2 Nipples — The nipples shall be manufactured from suitable grade of brass or from steel conforming to designation 13S₂₅ of IS : 4431-1967 'Specification for carbon and carbon-manganese free-cutting steels'.

4. Manufacture

4.1 Spokes — The wires used for the manufacture of spokes shall be free from surface defects, piping or harmful segregation. The wire shall be processed during manufacture in such a way that it lies flat in coils of even diameter and is free from corkscrew effect. The spoke heads shall be smooth so as to fit correctly in the spoke hole.

4.2 Nipples — The hole in the nipple shall be drilled centrally through the head. The threads shall be neatly formed.

5. Finish — The spokes shall be either galvanized or nickel chromium plated. The nipples manufactured from steel shall be nickel plated.

6. Test for Spokes

6.1 Reverse Bend Test for Spokes — The spoke wire shall be capable of being bent backward and forward not less than three times through an angle of 180° without showing signs of fracture (see Fig. 1). The first bend of 90° shall not be counted.

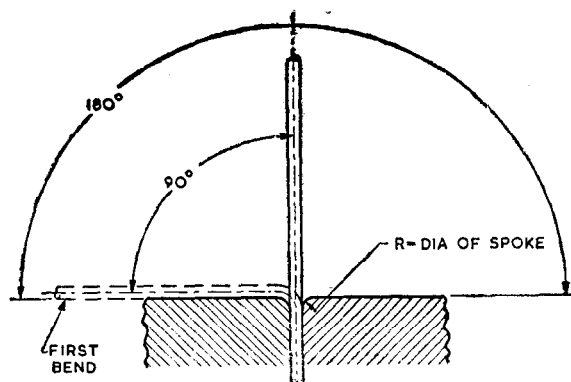


FIG. 1 REVERSE BEND TEST FOR SPOKE WIRE

7. Marking — Shall be stamped or etched on the spokes and nipples.

7.1 Spokes — Shall be appropriately marked on their head with the following:

- a) Size, and
- b) Manufacturer's name or trade-mark.

7.2 Nipples — Shall be marked on their head or body with the following:

- a) Size, and
- b) Manufacturer's name or trade-mark.

7.3 ISI Certification Marking — Details available with the Indian Standards Institution.

8. Packing — The spokes and nipples shall be wrapped in non-absorbent greased paper and then securely packed in water-proof strong card-board carton according to best prevalent trade practices. Normally a carton should contain 150 spokes unless otherwise specified by the purchaser. Each package shall be legibly marked with manufacturer's name or trade-mark, quantity of material and type of finish.

9. Sampling — Unless otherwise agreed to between the purchaser and the manufacturer, the procedure given in IS : 2500 (Part I)-1973 'Sampling inspection tables: Part I Inspection by attributes and by count of defects (first revision)' shall be followed. The single sampling plan to

be followed for each characteristic, shall be corresponding to the inspection level and AQL, is given below:

<i>Characteristic</i>	<i>Inspection Level</i>	<i>AQL</i>
Dimensions, manufacture and finish	III	2.5
Material and reverse bend test	I	1.0

EXPLANATORY NOTE

In the preparation of this standard, assistance has been derived from the following standards, issued by DIN Deutsches Institut für Normung:

DIN 74371 Blatt I Speichen-abgewinkelt für Kraftrader (Bent spokes, for motor-cycles)

DIN 74371 Blatt II Speichen-speichennippel für Kraftrader (Bent spokes, spoke nipples for motor-cycles).

The unit of tensile strength used in this standard is MPa. The relationship between MPa and kgf/mm² is as follows:

$$1 \text{ MPa} = 1 \text{ MN/m}^2 \\ \approx 0.1 \text{ kgf/mm}^2 \text{ (within 2 percent error)}$$